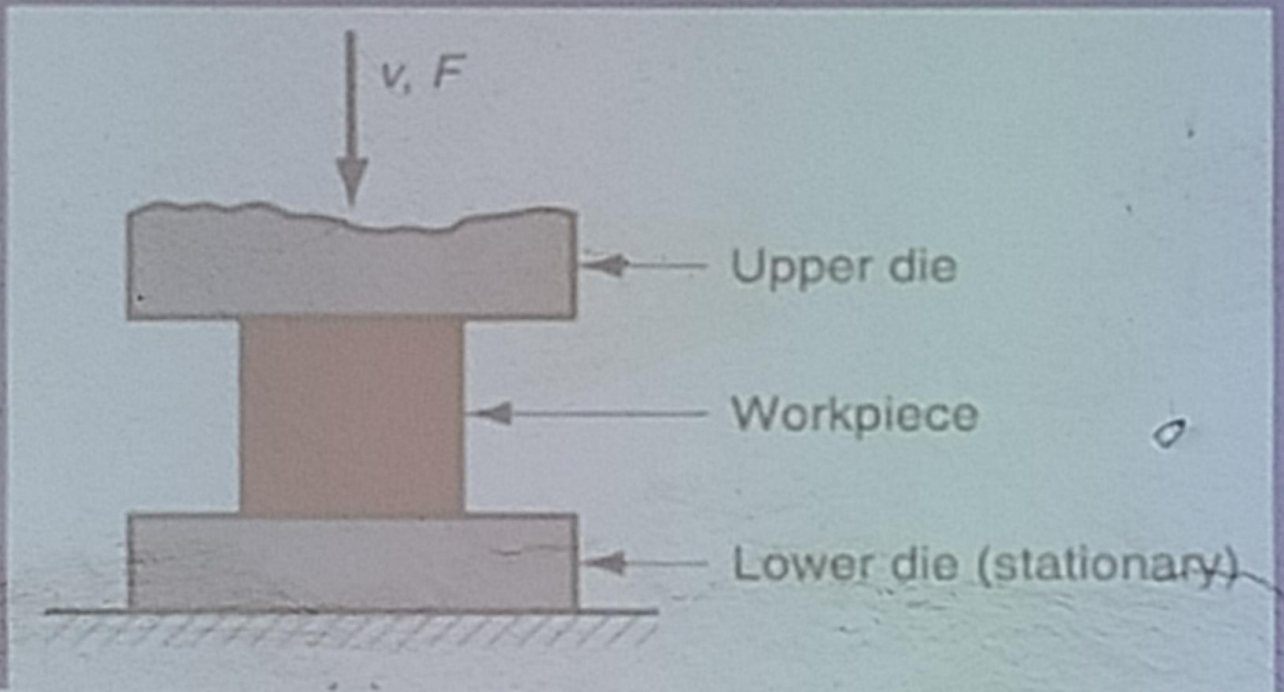
- **Cold vs. hot forging:**
  - Hot or warm forging – most common, due to the significant deformation and the need to reduce strength and increase ductility of work metal
  - Cold forging – advantage: increased strength that results from strain hardening
- **Impact vs. press forging:**
  - Forge hammer - applies an impact load
  - Forge press - applies gradual pressure

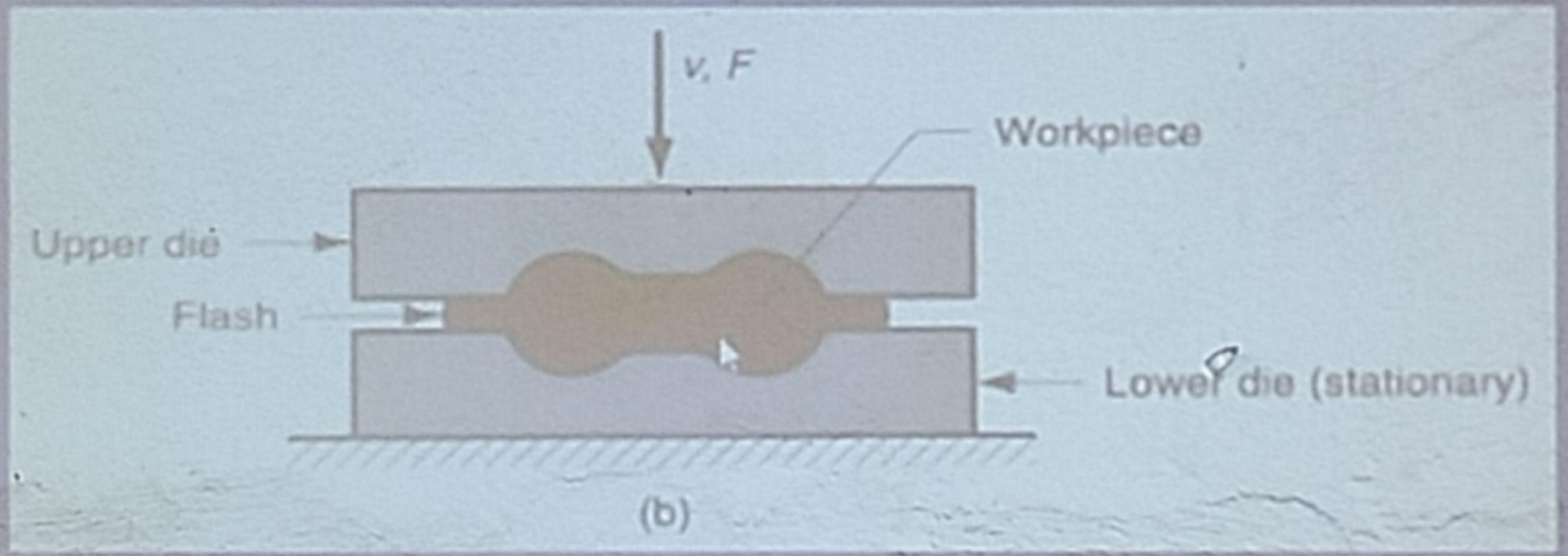
Types of Forging Dies - Open-die

- Open-die forging - work is compressed between two flat dies, allowing metal to flow laterally with minimum constraint



Types of Forging Dies - Impression-die

- Impression-die forging - die contains cavity or impression that is imparted to workpart. Metal flow is constrained so that flash is created



Types of Forging Dies - Flashless

- Flashless forging - workpart is completely constrained in die. No excess flash is created